9408 ----

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NOTE BOOK

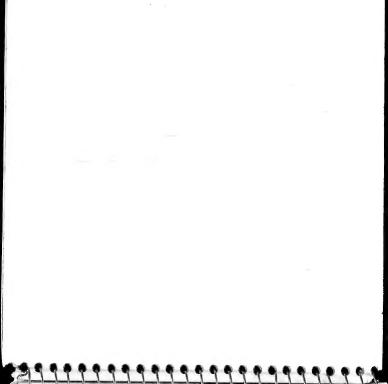
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HEG. U. S. PAT. OF



PLUS TAX IF REPLICABLE

\$5,00 REWARD for return to Dr. Arthur Cronquist New York Botanical Garden Bronx Park New York 58, 17. Y



9408. July 2, 1961 - Cranquist + Noel Holingsen, apin, rocky, granitic, rather loose, south. west slope just under the summit of abajo Rah; abajo Mits, west of monticello, Lan Juan Co., Wale Tryo, 345, R 22E, about S.12. Elevation 11, 300 feet, Stems 1- several, Flowers blue - lavender, Phacelia sericla (Grah.) Gray var. cilissa Rydb. Phocelia sericia (2)

9409 - July 2, 1961 - Cranquist + Moel Holugren. Lampeace as 408. Flamers white. avenavia (15)

111111111111111 9410- July 2,1961- farmer Cranquist + Moel Holmgren. Lamplace as 940 5. Flowers the , Etems clustered on a tapont and branching Luginus argentens Pursh, sens. lat. Lupine D

4 Mol Holman, Rocky, granitic, northwest slope Just render the runnit of abajoreah; abajo mts, east of monticello, San fran Co., utal. Tryp. 345. R. 22E., about 2. 2. Elevation 11,340 feet. Plants in small trefts, methout lang rhigomes, Inflorescence nuslding. Carex epapillosa Mach. Carey (B)

9412 - July 2, 1961 - Cranquist + Moel Holmgren. Loose, granitic, southwest - facing road cut a little below the summit of aligo Peak, abajo Mts. ment of montivello, san Juan Co., Utah, Tup. 345, R. 225, about S. 12, Elevation 11,100 feet. Flowers white. Cerastium beeringianum Cham. + Sehlecht. Cerastin (20)

9413 - July 2,1461 Cranquist & Moel Holmgren, aren, grassy southwest slope just west of Dichson Pass; abajo mts, west of monticello, Lan Juan Co, Mah. Tup. 345., R. 228., about 5.13. Elevation 10,500 feet Plants mephitic, mostly singlestemmed, typically mono. carpie, but samitimes blooming for 2 years. Corolla pinh, the limb finely pinh spotted on a nearly white background. Gilia aggregata (Pursh) Spreng. appr. var. attenusta Gray 20V Gelia aggregata

9414 July 2, 1961 Coonquist I Noil Holingren . Lame place as \$413, Flamers blue. Stems clustered on a taprost and branching caudey. Lepinos alpestris a. Hels. Lupinus argenteus Pursh, seus.

945- July 2, 1961 - Cranquist + 1 2. 1 Halingren. Rocky, granelly grantic substrate at Oichson Pass; abays litts, west of Monticello, San Juan Co., Utale. Twp. 345, R.228., about 5.13 Elevation 10, 450 feet. anemone globosa Mutt.

anemous globara

1

9416-July 2, 1961 Cranquist + Mac Holongran. Same piace no 9415. Plentiful here, but white as bluich. Erigeren abajoensis Irong. Vineralajnensei DV

Cranquist + Noel Holmgon Lame place as 9415. Flower yellow. Francis of with #9418 & cominm was conciona, and much resembling in but week pinnate instead Toplante leaves Potentilla concinna Lehm. var. rubriges (Ryal.) C. L. Vitche.

Polentilla-primate (5)

9418-July 2,1961 Cranquist & Moel Holmgren. & Same place P. Concinne var. rubrigges, and much resembling it, but with palmate instead of primate leanes. Flamers yellow. Potentilla concinna Schim. var. concinna Fitentilla-painte D

9419 - July 2, 1961 Cranquist I not Holoughen, Some place as 9415. Flamersyellow, the jutules subsolit and more resistent there in many other species of Potentilla. note only one n! Potentilla pensylvanica L., sens. lat. potentilla-enert pet. (13)

9420- July 2, 1961 . Comment + Well Holongren - Lave, rocky, granter readside banks, a little northwest of South Peak; aligo Mits, west of Montice Clo, Lan Juan Co., Utah. Tup. 345., R. 22E., about S.13. Elevation 10, 200 feet. Flowers yellow. Draba aurea Vall

(2) p

7421 - July 2, 1961 Cranquist + Noel Holman Lasse, rocky (granitic) road cuts on the southwest ridge of couch Paste; aliajomits, west of Monterells. San Juan Co., Utale. Twp. 3 45., R. 22 & Mont S. 23. Stenation 9700 feet. Flowers an unisual books shade of back purple, appearing some what blackish in the shadow more always reddish hig transmitted light. Pensternon whippleaus Gray (13) Pens Eman

4422- July 2, 1961 - Ovengoust L'Noel Holmgrey - Rocky, granitie sail on southwest slope of South Real; abajo mits. west of monticello, In Juan Co., utah. Tmp. 345, R. 202, near the southwest Corner of S. 2 4. Elevation 9 600 feet. Ray white to light blue-lavender. Erigeron abajoensis Cronq. (b) V Prise on aleagaruses

9423 - July 2,1961. Mist saif along small stream in wash just below kane springs, about 15 miles south of mosh, San Juan Co., Utah. Trop 285., R. 228., S. 1. Elevation 5000 feet. Brants tipped Upper bracks tipped with bright red, Plants single stemmed, apparently short- hied. Castilloja exiles a. Mels. drept. let. Marion beunky

Castilleja (6)

9424-July 3, 1961 - Cranquist L'Noel Holingsen. Very randy soil in the desert 52 miles northeast of Hankswille Wayne Co., utale. Trys 275., R.11E, Elevation about 5000 feet . Flavors papery white Heliotropium convolvulaceum (Mutt.) Gray white borage (9)

9425 - July 4, 1961- Cronquist & Total Holmgren. With sagebrush and scattered tree-clong bull week, a little southwest of Bulling, Henry Mets, 20 miles south of Hanksmille, Garfield Co., Utali T mp. 315, R.10E., about 5.12. Dienation about 7500 feet, Stems clustered or solitary. Flowers light blue (the table paler than the lines), wanying to accasionally Lavender-peak? Pensternan comarrhenus Gray Pens timened wiehe, 32

9426- July H. 1961- Cronquist + Mall Hating, em - Same place as 9:425, Flamers bright old, Nerlege somewhat glancous,

Penstemon bridgesic Gray

red Her store

1

9427 July 4, 1961-With reattered ponderson pines along Bull Creek, a little southwest of Bull Mit,; Henry mets., 20 miles south of Hanhsuille, Garfield Co., Utah. Twp. 315., R. 10E., about S.12. Elevation about 75 oofest. Flowers white, the banner with purple lines. artragalus tenellus Pursh det. R.C. Barnely

astrogueus (1) V

444444444 9428 - July 4, 1961 - Cranquest I noel Holougren - With With scattered true indry much just off BullCreek! a little southwest of Bull Met; Henry Mets., 20 miles south of Hanhaville, Garfield Co., utal. Twp315., R. 108. about 5.12, Shoulds 1-2 m. tall. Flowers whitish. Holodiscus dumosus (Mutt.) Heller van glabrescens (Greenm.) C. L. Hitchs. Holsoliseus 17

9429- July 4, 1961 Cranquist + Worl Holmgren In apen aspengroves along Bull Creek little southwest of Bull Mx. Henry mets., To miles south Two. 315. RIOE., about 5.12. Elevation about 7500 feet. Plants up to about 1 in tall with clustered stems. Flavers blue lavender. Lupinus argenteus Prush, sens. Pat. Eupine @ V.

9430-July 5, 1961 Cronquest L'ingen del marker . Open, rocky Franctic point overlowhing the east book of Bull Creek; Hinny Mits. chut 24 miles south Janksville, Garfield Co., Utale. Tmp.315., R.10E., S. 23r Clevation about 95 00 feet. Rays blue-lavender. Erigeren abajoensis Crong.

Erigeran all.

caespitosus (20)

2431- July 5, 1961 - Cranquist. & Hall haringen. Lame place i 9430. Flavers light yellow. Paronychia sessiliflora Mutt. Caryphyld (b) V

9432 - July 5, 1961 - Cranquist + Noc C Holongram Open rocky, a Alopse, and in better soil at the 2 dgs of the tember, overlooking the East fach of Bull Count; Henry wets. about 25 miles south Handsville, Garfield to Itale Tup.315, R.10E., S. 22. Elevation about 10,000 feet. Flowers warying from burnt red orange through arange to yellow. Leaves green, not J'aucous. Pseudocymopterus montanus (Yray) Coult-+ Rose (30) Mm. hit

9 433 - poly 5, 1761 - 20 aquest + 1 sex Holmgren - Same place as 9 432 - Plants varying from distinctly taprosted to more or less rhizomatores, the stender A Climo that arise from the taprost often creeping for some histance below-groups. + lawers whitish, the real purple tepped. astragalus miser Dougl. war, ablangifolius (Ryoll.) Crong. det. R. C. Barnely. astragalus miser (5)

9434 - July 5, 1761- Cronquist + Hoel Holmgren - apen, rocky, I ranitir slope and cooking the East fork of Bull Creek; Henry Mts, about 35 miles south of Hanhanille, Garfield to Make Tup. 315, RIOE, S. 22. Elevation about 10,000 feet. Lesquevella & wardie Wats. Lesamerella 8

9435 - July 5, 1961 - Cranquist I Noe 2 Holmgren - Edglor sporuse works an slope werlooking The east fork of Bull Coul; Henry Mts, about 25 miles south of Hanhamille, Gerfield Co, Male. Trup 35, R. 10E, about 5.27. Elevation about 10,000 or 10,500 feet. Stems mostly solitary, occasionally 2 or 3 together, nort stender, Ilowers blue Mertensia viridis a. Nels. Nels. Mertensia (6/ 1

2999

9436 - July 5, 1961 - Cranquist + Noel Holmgren. Open spruce. works an slope overlooking the last fork of Bull Creek; Henry Mts., about 25 miles south of Hanhaville, Garfield Co., Utal. Tup 315, R.108, about 507. Elevation about 10,000 on 10,500/15 €. + lawers light blue. Palemonium pulcherimum Hook. war. delicatum (Rydb.) Crong.

Pairmanin (2)

9437 - July 5, 1961 - Cranquist + "loca Holonguen. Open rocky, losse almost talas. Whe granitic west slope overlawhing the last fork of Bull rech; Henry Mts., about 25 miles south Wanhsmile Barfield Co. Utale. Elevation about 10,000 on 10,500 feet, Trup. 315, RIOE, about 5,27. Plants taproted, and also producing adventitions Colleging whizenes, Leaves glancous I lamers yellow, Corlosis alpina (Gray) Coult.
3 Rose Cymoptones (10) V

9438-July 5,1961-Cronquist + Noel Holmgen. Same place as 9433. Leaves somewhat glaveous.

Canlanthus glaber (fones) Rydl. Dupl. det. Reed C. Rollins

Streptantlun

9439 - July 5, 1961 - Coranguist + Noel Holmper, Same place as 9437. Petals yellow, subsect, more persistent than in some other species of the genus. note only one n! Potentilla pensylvanica L., seus, lat. Potentille () 9440 - July 3,1961 - Cronquist L Noel Holmgren, Lome places 7437. t lames blue. Penstemon watsoni Gray

7

Pensternon

2 Mac Holingsen. Loose, finely gravelly, talus like, granitic west slope on Bull mt; Henry Mets, south of Hanhmille. Carfield Co., Utah. Tup 315, R. 11E., S. G. Elevation about 8500 feet. Flowers pinhish. Chaenaetis Loughasii (Hook.) H. + A. sens. lat. Chaenatis 6

1442 - July 5, 1961 - Cranquist +
More Holingram Lame place as 9441but - Scattered from
about 8500 to 9100 feet, just
beginning to bloom. Flowers
whitish.

Eriogenum ostlundie Jones

This has sence been described as E. coangruitin Beneal

Erec Firm

1

9013 - July 6, 1961 - Cranquist 2 Mach Holingien - Cepen, love, gravelly, granitic south slope a little last of Bull Creek Pass; Henry Mts., about 25 miles south of Hanhamille, Garfield Co., Utal. Trop. 315., R.10 E. Elevation about 10, 500 feet. Flowers white. Cerastiim beeringianum Cham. I Schlecht. Ceratin (2)

9444. July 6, 1961- Coonquist & Moel Holmgren with scattered spruce on the summit ridge, just south of Bull Creck Pass; Henry Mits about 25 miles south of Handsville, Garfield Co., utale. Trop. 315., R 10 E. Elevation about 10,500 feet. Retals white. Duckera parrifolia Mutt. var. flavescens (Ryolb. IR. B. L.

Hustoma

9445 - July 6, 196! Cranquis & Moll Holmgren Rucky, granetic Exert of the summit ridge, a little south of Bull rech Pass; Henry Mets, about 25 miles south of Hanhaville, Garfield Co., Utah. Twp. 315., RIOE. Elevation about 11,000 feet. Plants trefted, not This ornations. Leaves the glancous. Poa pattersonie Vasey poa (22)

77777777777777777777777

9446 - July 6,1961 - Cronquist + Noel Holongoon, Rocky, grantic slope just under the Crest of the summit vidge a little south of Bull Creek Pass: Henry Mits, about 25 miles south of Hankswille, Sarfield Co., Wah. Trop. 35., R. 10E. Elevation about 11,000 feet, Plants tufted, not rhizamatous Carey hexburnin Boott apparently new to letah Cased (9)

1147 - pely 8, 1961 - Cranquest + Well Holingren - Open, rocky, grammitie exest of the risge leading morthest from the top I South Mit.; Fa Sal Mits., southeast 1/ Most, San Juan Co., Wate. Try. 275, R. 24E, S. 34. Elevation about 11,000 feat. Cymopterus hendersonie (Coult. L Rose) Crong. (= Ptenysia h.) I loylin ?

Cymopteres (3) V

9448- pely 8, 1961 Cranquest 2 Wolf Holmgray - Mist slope along the widge leading northerst from the crest of South mt.; La Sal Mets, southeast of " oal, San franco, utal Turp. 288, R. 248., about 5.2. Elevation about 11, 300 feet. Flowers white, Saxifraga rhomboidea Greene La vitraga 2) /

9449- July 9, 1961- Cranquist + Noel Holingren. Rocky (granite & shale) ridge-tops in first saddle along theritge leading west from the summit of Mt. Peale. La Sal Mits., southeast of Moat, son Juan Co, which. Tup. 275, R. 24E, S.24. Elevation 12, 600 feet. Flowers yellow. Geum rossii (R. Br.) Ser. var. turbinatum (Rydb.) C. L. Dilipe LARE Herem marrie (5) 9450 - July 9, 1961 - Cranquist + Moel Holmgren Same place as 9449 - Plants forming lense mats. Flavers whitish, with lavendar lines.

Trifolium nanum Torr.

4

15 1 - July 9,1961 - Conquist + Noel Holmgon - Same place as 9449 - Plants forming dense cushion mate. Flowers lavender-purple. Silene acaulis L. Lèlene à caulis (1) 9452 - July 9, 1961 - Cranquist & Noel Holmgren. Rushy, granitic slopes and ridgetops along the ridgeleading west from the summit of Mt. Peale; In Sal Mits, southeast of Moat, San Juan Co, Male Trap. 275, R. 24E, S. 23. Elevation 12. 400 feet. Well scattered over the upper slopes of the mountain, up to the summit cain. Raymorly 25-38, lavender at first, becaming Evigeren wagus Payson 25 35 rays.

Engeron ragues (B)

945 - July 9, 1961- Cranquist & holl Holmgren - along the rechy, granetic crest of the ridge leading from Mt. Peal toward Mt. Mellenthin and Mt, Tukuhnikivatz; La Sal Mts., southeast of most, Lan Juan Co., Utah. Trup. 275., R. 248., S. 23. Elevation 12, 200 feet. Heads yellow. Not abundant. Erigeron mancus Rydl. 12 2 100 Trigeron muncus (1) 464666666666666666 9454 - July 9,1961 - Cranquist + Moel Holongren - Same place as Creshion-mats. Flamero white Cirenaria obtusiloba (Kydb,) Fern. in he to Carry my by (3) V

9055 - July 9, 1961. Cranquist + noet Holmgren fame place 409453. Oreoxis baken Coult. & Rose

(He yellow?) Egmoplerus

9456 - July 9, 1961 - Cranquist + Noel Holmgren - Same place as 9 4 5 3. Spiles appearing blackish. Plants only loosely trefted, with short rhigomes. Caret albonigra Mack.

Ifla ! Orren 2

9057 - July 9, 1961 - Cranquist & Noel Hengen - Sample Gravelly, granitic suljust under the crest of the ridge leading from Mt. Peale toward Mt. Mellenthin and Mt. Tukuhnikinatz; La Sal Mts., southeast of Moal, San Juan Co., Utale. Twp. 275., R. 245., 5.23. Elevation 12, 200 feet-Plants densely trefted, not rhizomatous. Carex elynoides Holm dwarb cares (6)

9458 - July 9, 1961 - Cranquist + Noel Holongen - Same place as 9453. Flawers med-purple. Trifalium dasyphyllum Ton

1000

9 . 59 - July 9, 1961 - irranguist + Moil Holmgoon - Gravelly, grantic soil along the crest of the ridge otherwise 109 853. Brack dull bersenish purple toward the last, light yellow to distally. Castilleja o coidentalis Tor. Supl. Let. Ma reinountry Cartillys (b)

9463 - July 9, 1961 - Cranquist + Nac Holmgen - Mist, gravelly, granitic soil of saddle between Mt. Peale and Mt, Tukuhnikivaty, at the south and of the ridge leading to Mt, Mellenthin, La Sal Mts., Frethest of Moal, San Juan Co., Utah. Tup. 275, R. 248., 5.23. Elevation 12, 200 feet. Flamen white. Saxifraga rhombordea Greene 3/1 Lot lina

5361 - July 9, 1961 - Cranquist + Noel Holmgren - Same place as 9460. Flamers laverder. Trifolium parnji Gray

clave - word in (1)

9462 - July 9, 1961 - Cranquist + Moel Holmgren - Grandly, granitic soil alwing the crest of the ridge leading from Mt. Realeto Mt. Mellenthin and Met. Trekenhnikivat. La fal mets, southeast of Moal, Grand Co, Utah. Trys. 275. R. 2 48., S. 23. Elevation 12, 310 feet Flarvers yellow. Potentilla nivea L. Potentil'a

9463 - July 9, 1961. Cranquist + noil tolinger . Same place as 9460, artemisia scopulorum Gray

artemisia (3) V

11111111111 9464- July 9, 1961. Cranquist + Noel Holingon - Samplace as 9453. Headsyellan. Rays mostly about 13. Lenecio fremontii T. & G. war. blitoides (Greene Crong. Lining - rimenti QV

9465 - July 9, 1961- Cranquist I Mos Horngren - Some place us 945 3. Well reattened over The upper reaches of the mountain, up to the summit cain. Plants mephitic. Flowers blue. Polemonium viscosum Mutt.

Polemenium resenza

9466- July 10, 1961- Cranquist + Noel Holingran. Moist measlow about Medicine Lake, just east of fa Sal Pass, fa Sal Mts, southeast of Moat, San Juan Co., Wate, Tup. 275., R. 24E., S. 35. Elevation 10,000 feet. Plants single. - stemmed. Disk arange. Ray yellow, 6-13, after 13. Senecio dimorphophy lus Greene var. intermedius T. M. Barkley Lenevis Ermorphophyllus (35)

7467 - July 10, 1961 - Cranquist + Noel Holmgren - Edges of timber around meadow near medicine Lake, just cost I to Sal Pero; La Sal ruts, southeast of Most, San Juan Co., Wach. Try, 275, 9.2.48., S. 26. Elevation 10,000 feet. Brails light yellaw Castilleja sulphurea Rydh. Dupl. Let. Marian Quentry Castellen 15)

9468 July 10,1961. Lame place 639466, Flores lavender or lavender-purple Trifolium kingii Wats., sens. lat. Clarer (12) V

9469 - July 10,1961- Cranquet + Moel Holmgren. Moist soil and Edge of timber around mea im at Medicine Lake, just east of Ladal Pass; La Sal mts, southeast of moal, R.24 E., S. 35. Elenation 10,000 feet. Stems cluster don a large, soft taprest. F. Coners Mertensia franciscana Heller in extrused (3) V

9470 - July 10, 1961-Com quist + Noel Holingien - Open, gravelly, granitic south slope over. looking Wedicine Lake, just last of La Sal Paso; La Sal Mets., southeast of Moab, Ian Juan Co., Wal. Tryp. 275., R. 248., 5. 26. Elevation 10,400 feet. Rays 53-107 (based on several counts), white to occasionally lavender, Erigeron flagellaris Gray

Casaran Pagellaris

2 Noch Holmgren. Lame place as 9470. Flamers blue, Penstemon strictus Benth

Pensteman IIV

9472-fuly 10, 1961-Cranquist + Noel Holmgren. Lame place as 9470. Shrubsarly 2-4 dm. talf. Flavers penh, some. times very pale.

Kosa nuthana Presl. var. hispida Fern.

P. sn (10) V

+ Moel Holingren - Lamplace 239470 - but elevation 10,300 feet. Flowers bright red, the limb red and white - spechled. Plants meplatic, mostly flow eving only once, but sametimes surviving to flower a second Gilia aggregata (Pursh) Spreng. Lilia aggregata DV

9474 - July 10, 1961 - Cranquist I Moel Holmgren - Edges of timber in dry meadow near medicine Lake, just east of La Sal Paso; fa Sal Mits, southeast of moal, San Juan Co., Utal. Twp. 275, R. 245., 5.26. Elevation 10,000 feet. Plants single stemmed, viscial. Petals dull purplish, shallowly notched at the tip. Tychnis drummondii (Horh) & Wats. var. stricta (Rydl.) Magnine det Bassett Magnine Silan (5) 1

315,10€ 22/23 27 26 9474 H. grandifloop 20-35 rays that caddle / 9475 - Draha - tales 0 11,5002 9476 - Caren tepelering 1 9477 brest cf. Dabout small seepage 9478 hybrid Streamend under blue 9479 marrow of Blast of M. 11,000 feet 9480 - Senecid 10, 800. 9481- Polemanium (6) 92001- 5.36 9482 - Aliania D- white - 520. 8500

